



Benefits of Planting Pollinator Plant Species

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What Are Pollinator Plants?



- Flowering nectar producing plants that are utilized by pollinator birds, mammals and insects as a food source
- Critical for some species' life cycle, such as monarch butterflies

What Is The Problem?

- Pollinator species protection and habitat enhancement is becoming a preeminent issue throughout North America.
- Research has shown that pollinator species have been on the decline worldwide.



Why Is This a Problem?

- Butterflies, bees, beetles, along with birds, bats and other small mammals are responsible for pollinating the majority of crops worldwide.
- Missouri is home to hundreds of species of pollinator insects, birds and mammals, including the federally endangered monarch butterfly (*Danaus plexippus*).

Why do we think this happening?

- Habitat loss and fragmentation are considered the major factors contributing to the decline of pollinator insect species.
- Land-use modifications have decreased wildflower habitats and increased the distance pollinator dependent species have to travel to find food.
- Most pollinator plants are flowering for a small portion of their life cycle and during the rest of their life cycle are not recognized as valuable.



**Native Wildflowers need large open areas
with full sunlight through out the day.**



**Anyone have any ideas of places like
that?**

First Steps for Establishment

- Identify the soil conditions and site limitations
- Consider soil ph and nutrient levels, depth of soil, mowing schedule, existing cover type
- Use that information to determine the appropriate species



Funding Opportunity

- **2017 Monarch Butterfly Conservation Fund Request for Proposals**
- **Pre-proposal submission deadline is March 13, 2017**
- ***Missouri is in their priority area***

nfwf.org/monarch/Pages/2017rfp.aspx

Develop Partnerships and Seek Expert Advice

- Numerous agencies provide funding
- Partner with nongovernmental organizations and local communities
- A way to get positive PR?



Websites for Guidance

- dnr.mo.gov/education/monarchs/
- mopollinatorconservancy.com/
- fsa.usda.gov/programs-and-services/economic-and-policy-analysis/natural-resources-analysis/pollinators/index
- xerces.org/

Websites for Guidance (cont.)

Midwest Plant Guide

- xerces.org/monarch-nectar-plant-guide-midwest/
- nfwf.org/monarch/Pages/home.aspx



Success Stories

- **Abandoned landfills and private landowners provide hope for pollinators - USFWS**
usfwsnortheast.wordpress.com/2016/06/23/abandoned-landfills-and-private-landowners-provide-hope-for-pollinators/
- **Restoring Floral and Pollinator Populations at Remediated Landfill Sites**
energyvulture.com/2014/10/21/restoring-floral-and-pollinator-populations-at-remediated-landfill-sites/



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Success Stories (cont.)

- **Bridging the Cap: Landfills Providing Critical Pollinator Habitat**
foresternetwork.com/daily/waste/bridging-the-cap-landfills-providing-critical-pollinator-habitat/
- **Tour of pollinator habitat plantings slated at Pine Tree Landfill**
bangordailynews.com/community/tour-of-pollinator-habitat-plantings-slated-at-pine-tree-landfill/